

AMENDMENT TO THE CLAIMS

1-23. (canceled)

24. (currently amended) An apparatus for coupling at least a battery tester to a battery comprising:

a replaceable clamp comprising:

a first hand grip having a first hole;

a first electrical plug positioned in the first hand grip and electrically coupled to a first set of Kelvin conductors, the first set of Kelvin conductors including a first wire and a second wire;

a cable including a second set of Kelvin conductors, the second set of Kelvin conductors including a first wire and a second wire;

a second electrical plug electrically coupled to the first and second wires of the second set of Kelvin conductors, wherein the first electrical plug and the second electrical plug are removably electrically coupled together in the first hand grip such that the first set of Kelvin conductors and the second set of Kelvin conductors are removably electrically coupled together;

a terminal coupled to the cable having a terminal hole aligned with the first hole in the first ~~hang~~hand grip; and

a removable fastener which couples the terminal to the first hand grip through the terminal hole in the first hand grip.

25-26. (canceled)

27. (previously presented) The apparatus of claim 24, wherein the terminal comprises a tin-plated ring.

28. (previously presented) The apparatus of claim 24, wherein the removable fastener comprises a nut and bolt.

29. (previously presented) The apparatus of claim 24, wherein when the first electrical plug and the second electrical plug are electrically coupled together, the first set of Kelvin conductors and the second set of Kelvin conductors are capable of injecting a forcing function into a battery and providing a sensor lead for sensing a physical property of the battery.

30. (previously presented) The apparatus of claim 24, wherein the first and second set of Kelvin conductors comprise acid-resistant conductors.

31. (previously presented) An apparatus for coupling at least a battery tester to a battery comprising:

- a replaceable clamp configured to contact a battery, the replaceable clamp comprising:

- a first hand grip having an aperture;

- a first electrical plug positioned in the first hand grip and electrically coupled to a first set of Kelvin conductors, the first set of Kelvin conductors including a first wire and a second wire;

- a cable including a second set of Kelvin conductors and a terminal, the second set of Kelvin conductors including a first wire and a second wire and the terminal including a terminal hole aligned with the aperture in the first hand grip;

- a second electrical plug electrically coupled to the first and second wires of the second set of Kelvin conductors, wherein the first electrical plug and the second electrical plug are removably electrically couple together in the first hand grip such that the first set of Kelvin conductors and the second set of Kelvin conductors are removably electrically coupled together; and

- a removable fastener for removably coupling the terminal to the replaceable clamp through the terminal hole and the aperture in the first hand grip.

32-34. (canceled)

35. (previously presented) The apparatus of claim 31, wherein the terminal comprises a tin-plated ring.

36. (previously presented) The apparatus of claim 31, wherein the removable fastener comprises a nut and bolt.

37. (previously presented) The apparatus of claim 31, wherein when the first electrical plug and the second electrical plug are electrically coupled together, the first set of Kelvin conductors and the second set of Kelvin conductors are capable of injecting a forcing function into a battery and providing a sensor lead for sensing a physical property of the battery.

38. (previously presented) The apparatus of claim 31, wherein the first and second set of Kelvin conductors comprise acid-resistant conductors.

39. (previously presented) A method:

obtaining a replaceable clamp including a first hand grip having a first hole, a first electrical plug positioned in the first hand grip and a first set of Kelvin conductors having a first wire and a second wire, the first electrical plug electrically coupled to the first and second wires of the first set of Kelvin conductors;

obtaining a cable including a terminal having a terminal hole and a second set of Kelvin conductors having a first wire and a second wire electrically coupled to a second electrical plug;

removably electrically coupling the first electrical plug to the second electrical plug in the first hand grip; and

removably fastening the terminal to the first hand grip through the terminal hole and the first hole in the first hand grip.

40-42. (canceled)